



#9

BMID 9975US.ST25.txt
SEQUENCE LISTING

RECEIVED
DEC 31 2001
TECH CENTER 1600/2900

<110> Roche Diagnostics GmbH
<120> Process for the recombinant production of holo-citrate lyase
<130> BMID 9975 US
<140> US 09/672,265
<141> 2000-09-28
<150> DE 99119404.4
<151> 1999-09-30
<160> 7
<170> PatentIn version 3.1
<210> 1
<211> 36
<212> DNA
<213> Escherichia coli
<400> 1
ccctctagag aacaacattc gttgcaaadc gataac 36

<210> 2
<211> 38
<212> DNA
<213> Escherichia coli
<400> 2
ccgcgaattc ttagttccac atggcgagaa tcggccag 38

<210> 3
<211> 5484
<212> DNA
<213> Escherichia coli
<400> 3
gaacaacatt cgttgcaaat cgataacaac atgcaccttc aggatactat ttattatggt 60
cggcaatgat attttcaccg gcgtaaaacg ttcagaaaat aaaaaaatgg cggaaatcgc 120
ccaattcctg catgaaaatg atttgagcgt tgacaccaca gtcgaagtat ttattaccgt 180
aaccgcgat gaaaagctta tcgcgtgcgg tgggaattgcc ggaaatatta ttaaattgct 240
tgctatcagt gaatccgtcc gcgtgaagg actggcgctg acattagcca ctgaattgat 300
aaacctcgcc tatgagcggc acagcagca tctgtttatt tataccaaaa ccgaatacga 360
ggcgctgttc cgccagtgcg gtttttccac gctgaccagc gtaccggcg tgatggtgct 420
gatggaaaac agcgccacgc gactgaaacg ctatgccgaa tcgctgaaaa aatttcgtca 480
tccagggaac aagattggct gcattgtgat gaacgccaat ccctttacga atggtcaccg 540
ttatctgatt caacaggtcg cggcacagtg cgactgggtg catctgtttt tagtcaaaga 600
agattcttca cgcttccct atgaagaccg gctggatttg gtgttaaaag gcaccgccga 660
tattccacgc ctgactgtgc atcggtgctc cgaatacatc atctcccgcg ctacgttccc 720
ttgctacttc attaaagaac agagcgtcat taaccattgt tacaccgaaa ttgatctgaa 780
gattttccgt cagtacctcg ctcccgcgct ggggtgtaact caccgctttg tcggtactga 840

BMID 9975US.ST25.txt

acccttttgt	cgcgttaccg	cccagtagaa	ccaggatatg	cgctactggc	tggaaacgcc	900
gactatctcc	gcaccgccca	tcgaactggg	tgaaattgag	cggtgcggt	accaggagat	960
gccgatatcc	gcttcccggg	tacgtcaact	gctggcgaaa	aacgatctca	cggtatcgc	1020
gccgctgggc	cctgcagtc	cgctgcatta	tttgagaac	ctgcttgagc	actcccgcc	1080
ggacgcggca	gctcgtcaaa	agacccccgc	atgagaaaca	ggtgaaaaat	gaaaataaac	1140
cagcccgcg	ttgcaggcac	ccttgagttc	ggggatgtga	tgatacgcat	cgccccactc	1200
gatacgagg	atatcgacct	gcaaatcaat	agcagcggtg	agaaacagtt	tggcgatgca	1260
attcgacca	ccattctgga	cgttctcgcc	cgctacaacg	tgcgcgcggt	acagctgaat	1320
gtcgatgaca	aaggcgcact	ggactgcatt	ttacgtgcac	gactggaagc	cctgctggca	1380
cgcgccagg	gtatcccggc	tctgccatgg	gaggattgcc	aatgatttcc	gcttcgctgc	1440
aacaacgtaa	aactcgcaac	cgccgcagca	tggtgtttgt	gcctgggtgc	aatgccgcga	1500
tggtcagcaa	ctcttctc	taccggggtg	atgccctgat	gtttgacctc	gaagactccg	1560
tagcattgag	tgaaaaagac	accgcccggc	gcatgggtta	ccacgcgctg	caacatccgc	1620
tgtatcgga	tattgaaacc	attgtgcgtg	tcaacgcgct	ggattccgaa	tgggggtgta	1680
acgacctgga	agccgtcggt	cgcggtgggtg	cggacgttgt	gcgtctgccg	aaaaccgata	1740
ccgctcagga	tggtctggat	attgaaaaag	agatcctgcg	tatcgaaaaa	gcctgtgggtc	1800
gtgaaccggg	cagcaccggc	ctgctggcgg	cgattgaatc	tccgctgggg	attaccgcgc	1860
cagtggaaat	cgctcacgct	tccgagcggt	tgatcggtat	cgccctcggt	gcagaagact	1920
atgtgcgcaa	cctgcgtaca	gaacgctccc	cggaaggaac	tgaactgctg	ttcgcacgct	1980
gttccatttt	gcaggccggg	cgctctgcgg	gtattcaggg	gttcgatacc	gtctattccg	2040
acgctaacaa	cgaagccgga	tttctgcaag	aagccgccca	catcaaacag	ctgggctttg	2100
acggcaaatc	gctgatcaac	ccgcgtcaga	ttgatctgct	gcacaacctc	tacgcaccga	2160
cccagaaaaga	agtggtatcac	gcccgcggcg	tcgtagaagc	cgctgaagcc	gccgctcgcg	2220
aaggcctcgg	cgtgggtttc	ctgaacggca	agatgggtga	cgggtccggt	atcgatcgcg	2280
cccgctcggg	gctctcccg	gcagaacttt	ccggcatccg	cgaagaataa	ggcaatcaaa	2340
atgacgcaga	aaattgaaca	atctcaacga	caagaacggg	tagcggcctg	gaatcgtcgc	2400
gctgaatgag	atcttgccgc	tttccagaac	tcgcaaagc	aaacctacca	ggctgaaaaa	2460
gcgcgcgac	gcaaaactgt	cgccaaactg	gaagaagcga	ttcgtcgctc	tggtttacag	2520
gacggcatga	cgggttccct	ccatcacgct	ttccgtggcg	gtgacctgac	cgtaaatatg	2580
gtgatggag	tcacgcgga	gatgggcttt	aaaaacctga	ccctggcgct	cagctccctg	2640
agtgattgcc	atgcgcggct	ggtagaacac	attcgccagg	gcgtgggttac	ccgcatttat	2700
acctccggcc	tgcggtggcc	actggcgga	gagatctccc	gtggctctgct	ggcagaaccg	2760
gtgcagatcc	actctcacgg	cggctcgtgtg	catctgggtac	agagcggcga	actgaatatc	2820
gacgtggctt	tcctcggcgt	cccgtcctgt	gatgaattcg	gtaatgccaa	cggctacacc	2880
ggtaaagcct	gctgcggctc	cctcggctat	gcaatagttg	atgccgacaa	cgcaaaacag	2940

BMID 9975US.ST25.txt

gtcgtgatgc ttaccgaaga actgctgcct tatccgcata atccggcaag cattgagcaa	3000
gatcagggttg atttgatcgt caaagttgac cgcgttgccg atgctgcaaa aatcggcgct	3060
ggcgcgaccc gtatgaccac taaccgcgcg gaactgctta ttgcccgtag cgctgcggat	3120
gtgattgtca actctggcta cttcaaagaa ggtttctcca tgcaaaccgg caccggcggc	3180
gcatcgctgg cggtaaccgc tttcctggaa gacaaaatgc gtagccgcga tattcgcgcc	3240
gacttcgccc ttggcggtat taccgcgacg atggttgacc tgacgaaaa aggtctgac	3300
cgcaaactgc tggatgtgca gagctttgac agccatgctg cgcaatcgct ggcccgtaac	3360
cccaatcaca tcgaaatcag cgccaaccag tacgctaact ggggttcgaa aggcgcacg	3420
gttgatcgtc tcgacgtggt ggtactgagc gcgctggaaa ttgacacca gttcaacgtt	3480
aacgtgctga ccggtctga cggcgactg cgtggtgctt ccggtggtca ctgcgatacc	3540
gcgattgcct ctgcgcttct catcatcgtc gcgcgctgg tacgcggtcg tattccgact	3600
ctgggtggata acgtactgac ctgcatcacc ccaggctcca gtgtcgatat tctggtcaca	3660
gaccacggtg tcgcagttaa cccggcacgt ccggaactgg cagaacgtct gcaggaagcg	3720
ggcattaaag tggtttccat tgagtggctg cgcgaacgtg cgcgtctgct gaccggtgaa	3780
ccacagccga ttgaattcac agaccgcgtc gttgccgttg tgcgttaccg cgatggctcg	3840
gtgatcgatg ttgtgcatca ggtgaaggaa taagccatgc acctgcttcc tgaactcgcc	3900
agccaccatg cggatcaat tcccgaagct ctctgcagcc gggatgaaag gcaagcacgg	3960
caacacgtct ggctcaagcg ccactcgtt ccactggctt cctttaccgt ggttgcgct	4020
gggcccatta aagacagcga ggtcacacgc cgaattttta atcatggcgt gacagccttg	4080
cgtgccttag ccgcaaaaaca gggctggcaa attcaggagc aggtgcact ggtttccgcc	4140
agcgggcccgg agggcatggt gagcattgcc gcccgcgtc gcgacctca gctcgccacc	4200
attgagcttg aacatagtc tctctcggg cggttatggg atatcgatgt cctgacgcc	4260
gaaggcgaaa ttctctcccg ccgcgactat tctactgccg ctgcgcgctg cctgttgtgc	4320
gaacaaaagcg cagccgtctg cgcgcgtgga aaaacccatc aactgaccga tttactcaac	4380
cgcatggagg cactgctgaa cgatgtcgat gcctgcaacg tcaactaaaa ccacaaagct	4440
tgcgacgtca ttaatcgatg agtacgcctt gctgggctgg cgcgccatgc tgactgaagt	4500
caatctgtca ccgaaaccag gcctcgtagg tcgcatcaac tgcggtgcgc acaaagatat	4560
ggcgctggaa gatttccacc gcagcgcgct ggcgattcag ggctggctac ccggtttcat	4620
tgaatttggg gcctgtagtg cggaaatggc accagaagcg gtactccacg gattacgccc	4680
aattgggatg gcttgcaag gtgatatgtt ccgcgccact gcgggcgtaa acacgcataa	4740
aggcagcatt ttttcttttag ggctgctatg tgcggcaatt ggccggttgc ttcaactcaa	4800
ccaaccggta acgccaacaa ccgtttgttc tacggcggca agtttctgcc gtggcctgac	4860
cgatcgcgaa ctgcgtacca ataattcaca actgacggca ggtcaacggt tgtaccaaca	4920
gcttggcctt accggcgcac gcggtgaagc cgaagcgggt tatccactgg tgatcaatca	4980
cgccttgccg cattacctca ctctgctgga tcaggggtta gatcctgaac tggcattgct	5040

BMID 9975US.ST25.txt

cgataccttg ctcctactga tggcgatcaa cggcgatacc aacgttgcat cgcgcggtgg	5100
cgagggggggc ctgcgctggc tacagcgcgga ggcgcaaaca ttattgcaaa aagggggcat	5160
tcgaaccccc gccgatctcg attatctccg gcagttcgac agggagtgtg tcgaacgaaa	5220
tctcagtcga ggcggcagtg ctgacctact gatccttacc tggtttttag cacagattta	5280
attatttaag cacttgataa atttggaat attaattttc ggagaacccg tatgtcttta	5340
gcaaaagata atatatggaa actattggcc ccactgggtg tgatgggtgt catgtttctt	5400
atccctgtcc ccgacggtat gccgcgcgag gcatggcatt acttcgctgt gtttgtggca	5460
atgattgtcg gcatgatcct cgag	5484

<210> 4
 <211> 33
 <212> DNA
 <213> Escherichia coli

<400> 4 aaatttcata tgcacctgct tcctgaactc gcc	33
---	----

<210> 5
 <211> 36
 <212> DNA
 <213> Escherichia coli

<400> 5 gggccctcg agttagttga cggtgcaggc atcgac	36
---	----

<210> 6
 <211> 552
 <212> DNA
 <213> Escherichia coli

<400> 6 atgcacctgc ttcctgaact cgccagccac catgcggtat caattcccga gctgctcgtc	60
agccgggatg aaaggcaagc acggcaacac gtctggctca agcgccatcc tgttccactg	120
gtctccttta ccgtggttgc gcctgggccc attaaagaca gcgaggtcac acgccgaatt	180
tttaatcatg gcgtgacagc cttgcgtgcc ttagccgcaa aacagggctg gcaaattcag	240
gagcaggctg cactggtttc cgccagcggg ccggagggca tgttgagcat tgccgccccg	300
gctcgcgacc tcaagctcgc caccattgag cttgaacata gtcacctctt cgggcggtta	360
tgggatatcg atgtcctgac gcccgaggc gaaattctct cccgcgcgca ctattcactg	420
ccgcctcgcc gctgcctggt gtgcgaacaa agcgagccg tctgcgcgcg tggaaaaacc	480
catcaactga ccgatttact caaccgcatg gaggcactgc tgaacgatgt cgatgcctgc	540
aacgtcaact aa	552

<210> 7
 <211> 5593
 <212> DNA
 <213> Klebsiella pneumoniae

<400> 7 ttaattaaca acataaaaaac cataaagcca attaagccac gagaaaaact gtgacttaaa	60
---	----

BMID 9975US.ST25.txt

tacaagaatc catagccgaa cgctggcgaa atacagttcg ttttgaaatg acgaagcgct	120
aaaaaatgac actgatatta aaacgcgttc agctattaaa agataaaccg cggcgagagg	180
cgatcgatcg gtttctccgc cagcatcaac tgctgtaga ggccgactgc gaaatggcga	240
ttatcgccga gtatcagcag cggctggctg gctgcggtgc tatcgccggc aatgtgctga	300
aatgcatcgc catcgatccc tcgctgcagg gggaggggct gagccttaaa ttactgaccg	360
agctcctgac gctggcctat gagctggggc gcagcgaact gtttttggtc actaaacctt	420
gcaatgccgc gttattttcc ggccgcggct tctggccgat agcccaggcg ggcgaccgcg	480
ccgtgctaag ggaaaaatgc cgcgaacggc tgactcggtta ctgtcgacag ctggcgatgt	540
accgtcagcc gggaagaaaa atcggcgcta tcgtgatgaa tgctaatacca ttcacctctg	600
gccaccgctg gttggtagaa caggcgcca gccagtgcga ctggctgcat ctgtttgtgg	660
tcaaagaaga tgcgtcctgc ttttctatc acgatcgctt caagctcatt gaacagggga	720
ttaccggcat cgataagggtg acgtgcctc ccggttcggc gtatctgac tcgcggggcga	780
cgttcccccg ctatttctg aaagagcagg ggggtggtga tgactgccac agccagattg	840
acctgcagct cttccgcgag cgcctggccc cggcgctgca gattacccat cgctttgtcg	900
gcaccgagcc gctgtgtccc ctgaccgta attacaacca gcgcataag tcaactactg	960
aagcgccagg cgacgcgcg cccattgaag tagttgagct tgcgcgaatc gaaaaaatg	1020
gtggaccctg gtcggcctcc cgagtgcgcg aactctatcg acagcgcaac tggcaggcgg	1080
tcgcggcgct ggtaccgcg ggaacctct cttttctgat gcaactggcg gaaagcgaac	1140
atcaaaccgc ctgatttata cgcctaact aaggattttc ccctatggaa atgaagattg	1200
acgccctggc cggcacgctg gagtccagcg atgtgatggt caggattgga cccgcggcgc	1260
agccgggcat tcagctggaa atcgacagca ttgtgaaaca acagtttggc gctgcgattg	1320
agcaggtagt gagagaaacg ctggctcagc ttggcgtgaa acaggccaac gtggtggtcg	1380
atgataaagg cgcgctggaa tgtgttttgc gagctcgcgt acaggccgcg gcgctgcgcg	1440
cggcgcaaca gacccaatta caatggagcc agctatgaaa ccacgtcgca gtatgttgtt	1500
catccctggc gccaatgccg ccatgttaag cacgtcatc gtctacggcg ctgatgctgt	1560
gatgttcgac ctggaagatg ccgtttcgct gcgcgagaaa gataccgctc gtctgctggt	1620
gtatcaggcg ctgcagcatc cactgtatca ggatatcgaa accgtggtgc gtattaacct	1680
gctaaatacc ccgtttggtc tggccgatct ggaagccgtg gtctgtgcg gcgtggatat	1740
ggtgcgtctg ccgaaaaccg acagcaaaga agatatccat gagctggaag cgcattgtga	1800
gcggattgaa cgcgagtgcg gccgggaagt gggcagcacc aagttaatgg cggcgatcga	1860
gtcggcgctg ggcgtggtga acgcggtgga aatcgccgc gccagccgc gtctggcggc	1920
gatcgcgctg gcggccttcg attacgtgat ggatatgggc acctcccgcg gcgacggtac	1980
tgaactgttc tacgccgct gcgctgtact gcatgccgc cgcgttgccg gcatcgccgc	2040
ctatgacgtg gtgtggtcgg atatcaataa tgaagagggc ttctggcgg aagcgaatct	2100
ggccaaaaac ctcggttcta acggcaaatc gttggttaac ccacgacaaa ttgaactcct	2160

BMID 9975US.ST25.txt

gcatcaggtc	tatgccccga	cgcgcaaaga	ggtcgatcac	gcgctggaag	tgattgccgc	2220
ggcggaagaa	gccgaaacgc	gaggtctggg	tgtggtatcg	ctgaacggca	agatgatcga	2280
tggaccgatt	atcgaccatg	ctcgcaaagt	ggtggcgctc	tcggettccg	gtattcgtga	2340
ttaaggggaa	taagatgaaa	gagacagtag	caatgcttaa	tcagcagtac	gtgatgccga	2400
atggactgac	accttatgcc	ggcgtaacgg	cgaaaagtcc	ctggctggcg	agtgagagcg	2460
aaaagcgcca	gcgcaaaatc	tgcgattcgc	tggaaacggc	aatccgtcgc	tccggcctgc	2520
aaaacggcat	gaccatctcg	tttcaccacg	cgtttcgcgg	cggtgacaaa	gtcgtcaata	2580
tggtagtggc	gaagctggcg	gaaatgggtt	ttcgcgatct	cacctggcg	tccagttcgc	2640
tgatcgacgc	ccactggccg	ctgatcgagc	atattaaaaa	tggcgtgatc	cgccagatct	2700
acacctccgg	cctgcgcggc	aagtggggcg	aggagatctc	cgccggttta	atggaaaacc	2760
cggtgcagat	ccactcccac	ggcggtcgcg	tacagctgat	tcaaagcggc	gagctgtcga	2820
ttgatgtcgc	gtttctcggc	gttccttgct	gcgatgagtt	tggcaacgcc	aacggcttta	2880
gcggtaaatc	acgctcgggt	tctctgggct	acgcgcgcgt	cgatgccgag	cacgctaaat	2940
gcgtggtgct	gctcaccgaa	gagtgggtgg	attatcctaa	ctatccggcc	agtattgccc	3000
aggatcaggt	ggatctgata	gtccaggtag	atgaagtcgg	cgatccgcaa	aaaattaccg	3060
cggttgccat	ccgtctgacc	agcaaccgcg	gcgagctgct	gatcgccgcg	caggcggcga	3120
aagtcgttga	gcactccggt	tactttaaaag	agggtttctc	gctgcagacc	ggtaccggcg	3180
gcgcctcgct	ggcagtaact	cgcttccttg	aagataaaat	gcgccgtaac	ggcattaccg	3240
ccagcttcgg	cctcggcggt	atcaccggga	cgatggtcga	tttgacgaa	aaagggttga	3300
tcaaaacgct	gctcgatacc	cagtccttcg	atggtgacgc	ggcgcgttcg	ctggcgcaga	3360
accgaacca	tgctgagatc	tccaccaatc	agtatgccag	cccgggctcc	aaaggcgcct	3420
cctgcgagcg	cttaaacgtg	gtgatgctca	gcgcgctgga	aattgatata	gactttaacg	3480
ttaacgtgat	gaccggttct	aacggtgtgc	tgcgcggggc	gtccggtggc	catagcgata	3540
ccgcgcgccg	tgcggttttg	accattatta	ccgcgcggtt	agttcgcggc	cgtattccct	3600
gcgtcgtgga	aaaggtgctg	accgcgctca	cgccgggggc	cagcgtggat	gtgctgggtca	3660
ctgaccacgg	cattgcggtc	aaccggcac	gtcaggacct	gatcgacaat	ttgcgcagcg	3720
caggcattcc	gctgatgacc	attgaggaac	tgcagcagcg	tgctgagctg	ttgactggca	3780
agccgcagcc	gatcgaattc	accgatcggg	tgggtggcgg	ggtgcgctat	cgcgacgggt	3840
cggtcatcga	tgtgattcgt	caggtgaaaa	acagcgacta	aacgcagagg	ggaaaggcca	3900
tgagcgacgt	gttaattaat	cctgcgcgtg	tgcggcgcgt	gaagccactg	agtgccgaag	3960
aggtggtcag	cgcggttagag	cgcgcgctgt	tgaccgaagt	tcgcctgacc	ccaaagcccc	4020
ggttgggtgga	tattcgtaac	gctggcgcg	actgggatat	ggatctggcc	tcgtttgagg	4080
ccagcaccgc	ggtggtggct	ccgtggatgg	agaaatTTTT	catcatgggc	cacgatactg	4140
cggcggtcgc	gccggagcag	gtattgatga	tgctgcgccc	ggtagggatg	gcctgtgaga	4200
acgatatgct	ggaggccacc	ggcggggtga	atacccatcg	cggggcgata	ttcgcttttg	4260

BMID 9975US.ST25.txt

gcctgctcag	cgcggcggcg	ggcaggettg	tgtcgaaagg	tgagccgata	gagcagcacc	4320
ggctttgcga	ccaggtggcg	cgcttctgtc	gcggcatggg	tatgcaggag	ttgtcttctg	4380
ctggcgggga	acggctcagt	aaaggcgagg	ctcattttct	acgctatggg	ctctccgggg	4440
cccgcggcga	ggcggagagc	ggtttcctga	cggtgcgtac	ccaggccatg	ccagtcttta	4500
cccgcgatgat	ggaagagacc	ggcgacagta	atctggcgct	actgcaaacc	ctgctgcata	4560
tgatggcggtg	gaatgatgac	accaacctgg	tctcgcgagg	cgggcttgcc	gggctgaact	4620
ttgtccagca	ggaggcgag	cgactgctgt	ggcagggcgg	cgtgctggcg	gacggcgggc	4680
tgaggcgct	gcgacagttt	gacgatgagc	tgattgcccg	ccatctcagc	cctggcgggca	4740
gcgcgatct	gttggcggtg	acctggtttt	tatccgcgtt	tcccgcgggc	gcgcttttcc	4800
cgctgtaacc	cactgcaata	ccgccttcgc	ccgcactgta	cgggcgaggg	cgccatcatt	4860
agccttcccg	gttgtcatcc	ggtaaacacg	gaatcgcggc	acaatcgat	agtttttact	4920
gatatcgtec	gccgtttgtc	ataaatttct	aattatcggc	gtttttgagt	agcggccccg	4980
tgacgggctg	gttactctga	aaacaattta	cgtaatgtta	acaaaagaga	atagctatgc	5040
atgatgcaca	aatccgcgtg	gccatcgccg	gcgcggggcg	ccgatggga	cgccagttaa	5100
ttcaggctgc	attgcagatg	gaaggcggtg	cgctggggcg	ggcgctggag	cgcgagggt	5160
caagcctggt	gggcagcgac	gccggcgagc	tggcggggcg	cggcaaagcg	ggcgtcgagg	5220
tgcagagcag	cctggcgggc	gtaaaagatg	atttcgacgt	gttgatcgat	tttaccgcc	5280
cgggaaggcac	gctgaaccat	ctggcgtttt	gccgcgagca	cggcaaaggg	atggatcatg	5340
gcaccaccgg	ttttgacgac	gctggcaaac	aggcgattcg	cgatgccgcg	caggacattg	5400
ccattgtctt	cgccgctaac	tttagcggtg	gcgtcaatgt	cctgttgaag	ctgctggaga	5460
aggcggcgaa	ggtgatgggc	gactataccg	acatcgaaat	tatcgaagcg	caccaccggc	5520
ataaagtgga	tgcgccgtca	ggcaccgcgc	tggcgatggg	cgaagcgatc	gccggggcat	5580
tgaacaaaga	tct					5593

PAGE: 1
12/18/2001

VERIFICATION SUMMARY REPORT

DATE:

PATENT APPLICATION

TIME:

13:53:30

INPUT SEQ: G:\CORE\IPLD\IDs\9900-
9999\9975us\Seq listing items\BMID 9975US.ST25.txt

GENERAL INFORMATION SECTION

3,<110> Roche Diagnostics GmbH
5,<120> Process for the recombinant production of holo-
citrate lyase
7,<130> BMID 9975 US
9,<140> US 09/672,265
10,<141> 2000-09-28
12,<150> DE 99119404.4
13,<151> 1999-09-30
15,<160> 7
17,<170> PatentIn version 3.1

ERRORED LINES SECTION

STATISTICS SUMMARY

Application Serial Number: US 09/672,265
Alpha or Numeric: Numeric
Application Class:
Application File Date: 2000-09-28
Art Unit:
Software Application: PatentIn
Total Number of Sequences: 7
Total Nucleotides: 11772
Total Amino Acids: 0
Number of Errors: 0
Number of Warnings: 0
Number of Corrections: 0